

Scientific Method

- The first step is the question/problem stage, and is observing rather than collecting data
- The second step is the research stage, where one reviews the work and results of others
- The third step is the hypothesis stage, which must be:
 - Educated guess
 - Based on gathered information
 - Must be testable
- The fourth step is to design an experiment with a control group, and only one variable is tested
 - Independent variable: controlled and changed by experimenter
 - Dependent variable: measured by experimenters
- The fifth step is to gather data, which includes documenting data and making graphs
 - Quantitative data can be measured, counted
 - Qualitative data: unmeasured observations
- The parts of a graph can be memorized using the following acronyms:
 - Dependent variable
 - Recorded
 - Y-axis
 - Manipulated
 - Independent variable
 - X-axis
 - TAILS
 - Title
 - Axis
 - Increments
 - Labels
 - Scale
- The last step is to draw conclusions and theories, and one decides if the data supports or refuted the hypothesis and public their findings

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